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GM D 202406

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Wetown Official Website

Busway Enterprise Leadership & Total
Solution on Power System Integration

GM D

Series of Cast Resin Busbar

WETOWN

WETOWN

GM D Series of Cast Resin Busbar





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Company Profile

Wetown Electric (SH. 688226) mainly covers two business segments: power distribution and new energy, and is committed to providing high-quality solutions and services for customers in power, new energy, data communication, rail transit, industrial manufactures industries and

Core Value: Customer Orientation, Innovation and Foresight, Accountability

Capability & Advantage

- Dedicated in electric product development and manufacturing for over 30 years, with the key business: busway, switchboard, electrical components, PV ribbon, copper/aluminum conductors;
- Large scale of intelligent manufacturing system and complete industrial chains in busway industry;
- Comprehensive international certifications including KEMA, ASTA, UL, CE;
- "Well-known Trademark in China" and "The Most influential national brand in electrical industry".

Global Coverage

Wetown has wide global coverage with thousands of installation basis in over forty countries including South-east Asia, India, Middle East, Africa, Russia, Europe, Latin America, Australia etc.

ISO
9001

ISO
14001

OHSA
18001

SA
8000

GB/T
27922

GB/T
29490

UL

K^{EMA}
EUR

ASTA

EAC

CIDET

RoHS



Domestic scale is large

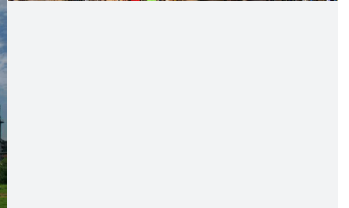
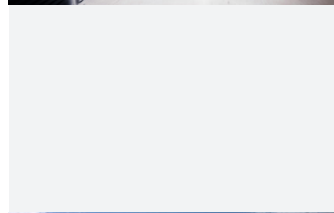
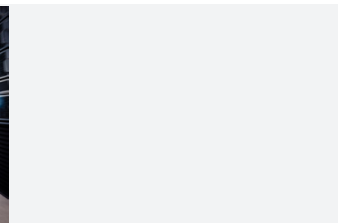
Full range of products

Manufacturer of busbar products with complete industrial chain

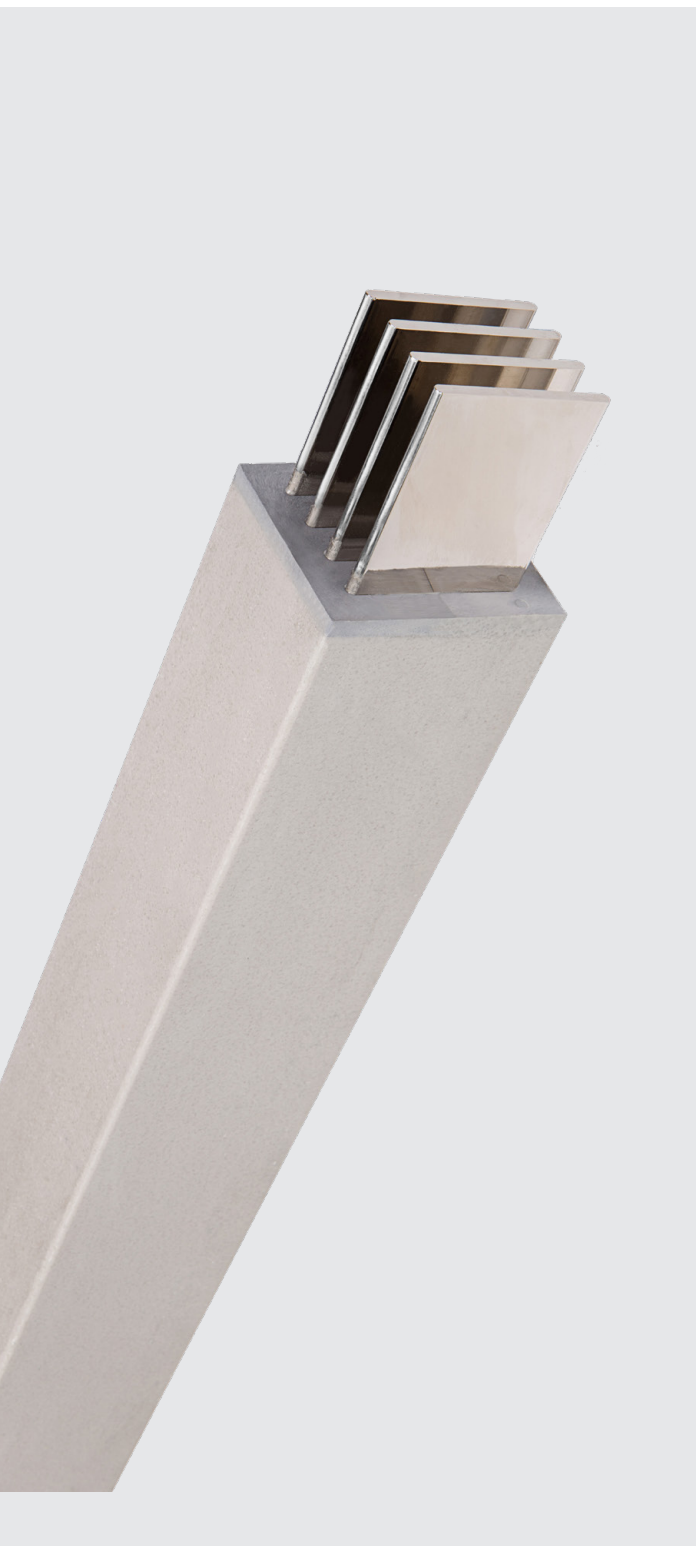


System Overview

GM series fully enclosed resin cast busway is an innovative busway product developed by our company. Product rated working voltage 400/690V, rated insulation voltage 690/1000V, rated current 400A to 5000A, frequency 50/60Hz, 3P4W and 3P5W system are available, which can be applied to a variety of Power transmission and distribution sites with different environmental requirements.

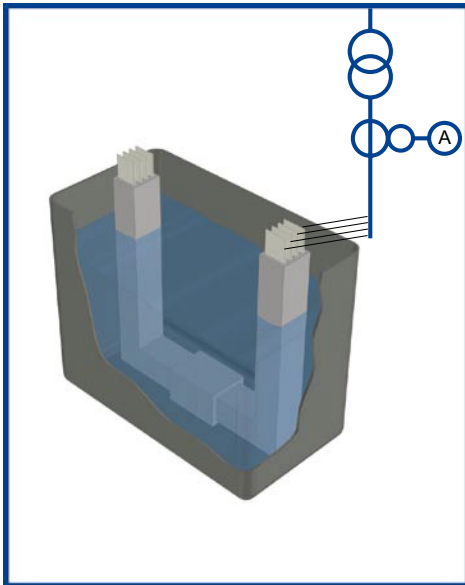


Product Features



- Meet low-voltage standards: GB7251.1, GB7251.2, GB4208, GB5585.1, GB50054, IEC439-6;
- The product has obtained CQC, KEMA and other certifications;
- Small size, easy to install, no toxic gas emissions (certified by MSDS pollution-free report);
- Quality of raw materials: high purity of electrolytic copper; epoxy resin and halogen-free inorganic mineral filler are mixed and refined.
- The protection level reaches IP68, even if the busway is immersed in more than 1 meter of water, it can be energized safely and stably for a long time;
- Excellent anti-corrosion performance, resistance to chemical corrosion, anti-electromagnetic interference, anti-chewing of animals and insects;
- High mechanical strength, can withstand 20 joules of mechanical impact, can withstand the violent water spray of the fire hydrant, and at the same time meet the environmental temperature -50°C to +55°C, without cracking in long-term use;

Product Advantage



Busway waterproof performance test

Protection grade IP68

Standard section immersed in 1m water test time

Up to 9000 hours, still safe to power on

Technical Parameters

Electrical Specifications

Busway model	GM
Ambient temperature	-50~+40°C
Meet the standard	GB7251.1,GB7251.2,GB4208,GB5585.1,GB50054,IEC439-1,IEC439-2...
Rated working voltage	400-690V
Rated insulation voltage	690/1000V
Rated current	400-5000A
Rated frequency	50/60Hz
Protection level	IP68
Tank color	Light gray/light yellow
Installation form	Horizontal hoisting / vertical installation

Application Scenario

Salt mist areas such as shipyards, docks, ports, etc.
 Petrochemical, metallurgy, hydropower.
 Underground tunnels in public buildings.
 Confidential places, technology centers, ammunition factories, clean rooms.

Voltage drop

[Data source: calculation]

Rated Current ¹	Rated short-time withstand (I _{cw})	Rated peak current (I _{pk})	20°C	Rated Load/steady state (50Hz)							
			DC Resistance	Resistance	Reactance	Impedance	Line-to-line voltage drop (V/m) - Concentrated load ^①				
A	kA/s	kA	(10-6Ω/m, phase-to-neutral)				cosφ=0.6	cosφ=0.7	cosφ=0.8	cosφ=0.9	cosφ=1.0
400A	30	63	98.7	120.7	76.5	142.9	0.093	0.096	0.099	0.099	0.084
630A			74.0	94.6	64.6	114.6	0.118	0.122	0.125	0.124	0.103
800A			59.2	78.2	59.2	59.2	0.131	0.134	0.136	0.134	0.108
1000A	50	105	49.4	66.5	49.3	49.3	0.137	0.141	0.143	0.141	0.115
1250A			49.4	51.0	45.9	45.9	0.146	0.148	0.148	0.143	0.111
1600A			26.9	39.9	41.1	41.1	0.157	0.158	0.157	0.150	0.111
2000A	80	176	18.5	27.7	30.8	30.8	0.143	0.143	0.141	0.133	0.096
2500A			14.8	23.4	24.9	24.9	0.147	0.148	0.146	0.139	0.102
3200A			11.8	17.8	19.7	19.7	0.147	0.147	0.145	0.137	0.099
4000A	100	220	9.3	14.5	15.3	15.3	0.145	0.146	0.144	0.137	0.100
5000A			7.4	11.6	11.5	11.5	0.140	0.141	0.140	0.134	0.100

Dimensions

3P4W

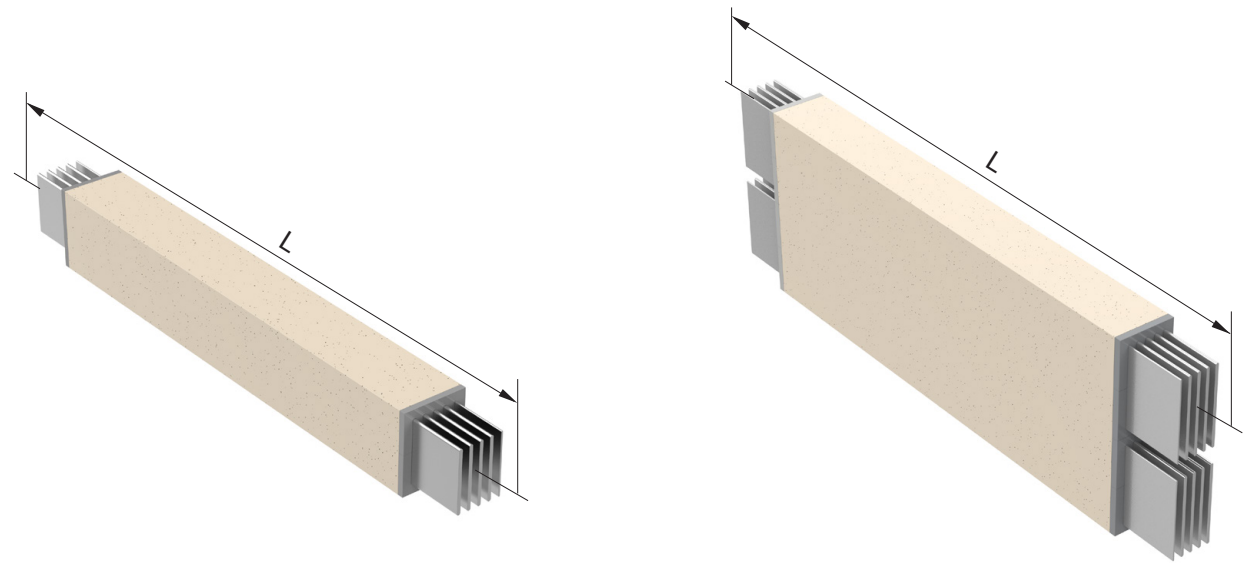
Rated Current (A)	Wire System	Width (W)	Height (H)
400	4	100	60
630	4	100	70
800	4	100	80
1000	4	100	90
1250	4	100	110
1600	4	100	140
2000	4	100	190
2500	4	100	230
3200	4	100	310
4000	4	100	380
5000	4	100	460

3P5W

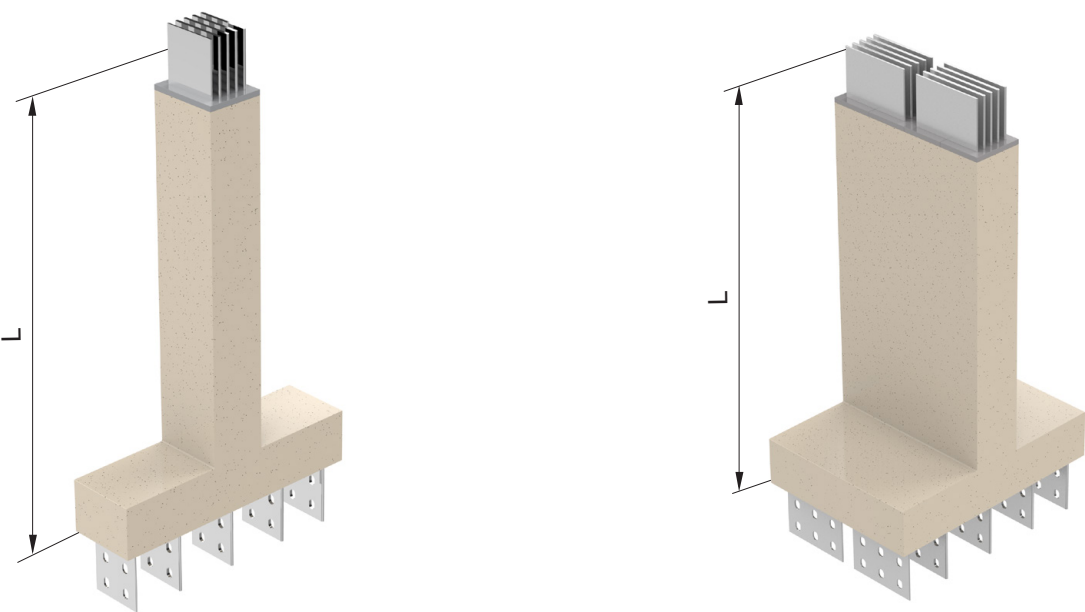
Rated Current (A)	Wire System	Width (W)	Height (H)
400	5	120	60
630	5	120	70
800	5	120	80
1000	5	120	90
1250	5	120	110
1600	5	120	135
2000	5	120	170
2500	5	120	215
3200	5	120	300
4000	5	120	370
5000	5	120	480

Function Unit

Feeder unit

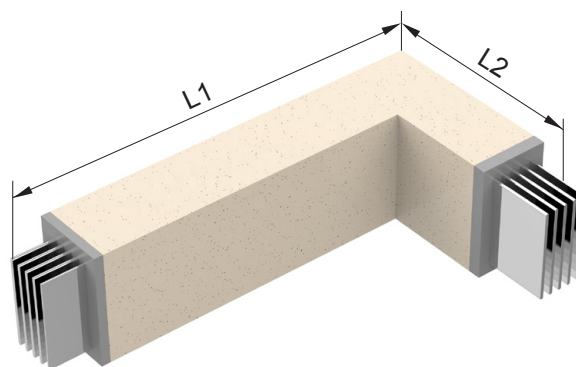


Flange end incoming unit

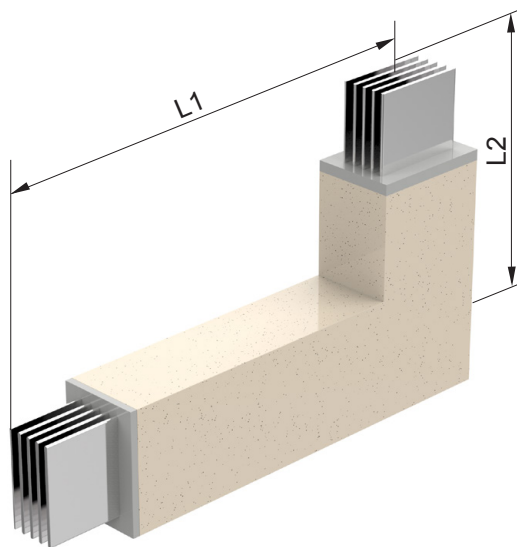


L horizontal elbow

Rated capacity (A)	Minimum size (mm)
	(L1×L2)
400-2500	300×300
3150-5000	350×350



L vertical elbow

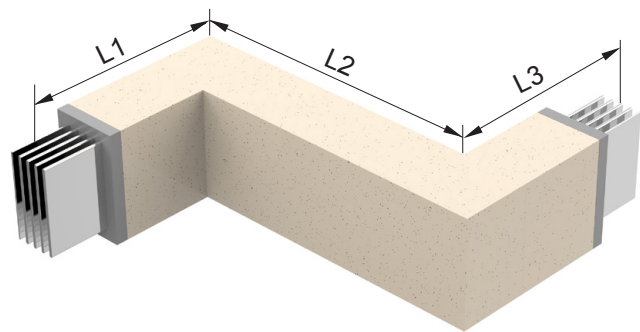


Rated capacity (A)	Minimum size (mm)
	(L1×L2)
400-2500	300×300×300
3150-5000	350×350×350

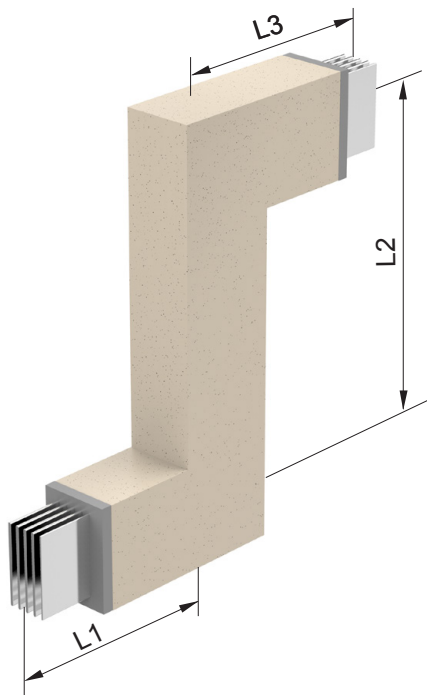
Function Unit

Z horizontal elbow

Rated capacity (A)	Minimum size (mm)
	(L1×L2×L3)
400-2500	300×300×300
3150-5000	450×450×450



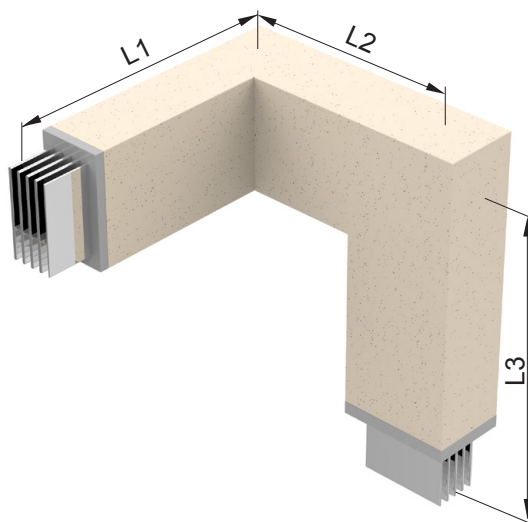
Z vertical elbow



Rated capacity (A)	Minimum size (mm)
	(L1×L2×L3)
400-2500	300×300×300
3150-5000	350×350×350

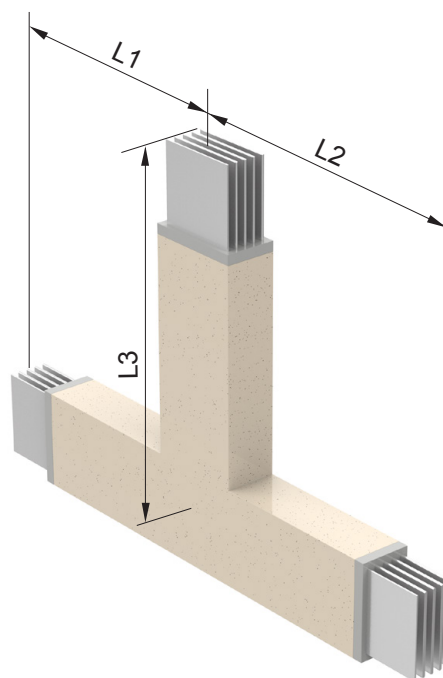
Horizontal and vertical elbow

Rated capacity (A)	Minimum size (mm)
	(L1×L2×L3)
400-2500	300×300×300
3150-5000	350×350×350



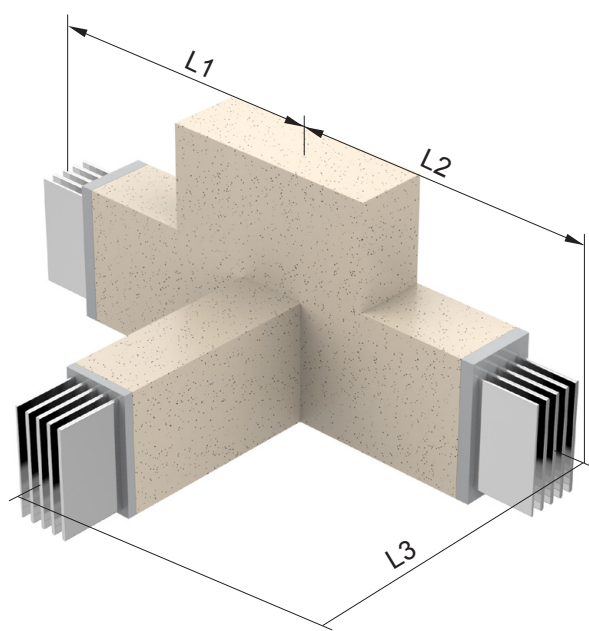
T vertical tee

Rated capacity (A)	Minimum size (mm)
	(L1×L2×L3)
400-2500	300×300×300
3150-5000	350×350×350



Function Unit

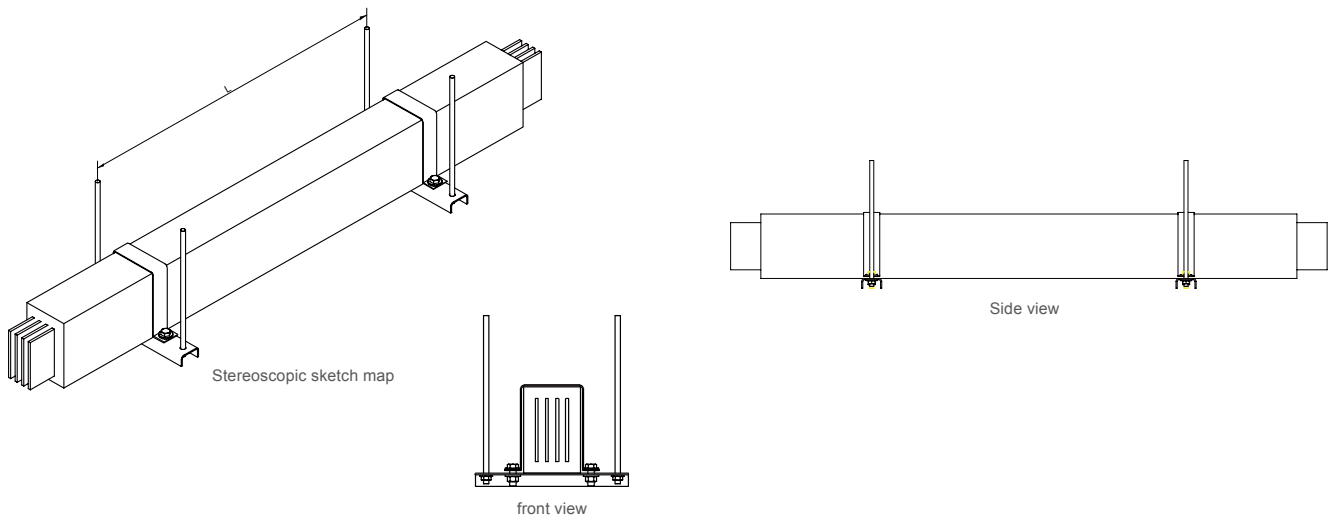
T horizontal tee



Current level	Width (w)
400	450×450×450
630	
800	
100	
1250	
1600	500×500×500
2000	
2500	
3250	550×550×550
4000	
5000	
	650×650×650

Installation

Horizontal hanger



Vertical spring support device

